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(71) Applicant (for all designated States except US): VASCU-LAR CONTROL SYSTEMS, INC. [US/US]; Suite E, 32236 Paseo Adelanto, San Juan Capistrano, CA 92675 (US).

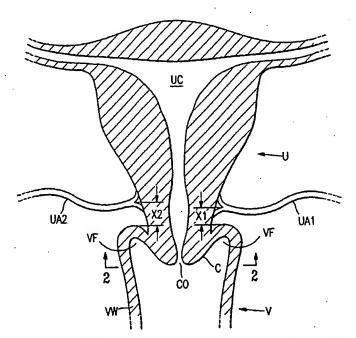
(72) Inventors; and

(75) Inventors/Applicants (for US only): BURBANK, Fred [US/US]; 12 Old Ranch Road, Laguna Niguel, CA 92677 (US). ALTIERI, Grieg, E. [US/US]; 1102 Temple Hills Drive, Laguna Beach, CA 92651 (US). JONES, Michael, L. [US/US]; 6332 Camino Marinero, San Clemente, CA 92673 (US).

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[Continued on next page]

(54) Title: DEVICE FOR UTERINE COMPRESSION



(57) Abstract: A compressor (100) compressing one or both of the uterine arteries of a patient which is at least n part shaped to complement the shape of the exterior of the cervix, which allows the system to be self-positioning. One or more Doppler chips (214i, 216i) can be mounted or incorporated into the compressor (100) which permit the practitioner to better identify the uterine artery and monitor blood flow therein. The compressor (100) includes a pair of pivotally joined elements which can be moved toward and away from the cervix to compress a uterine artery.

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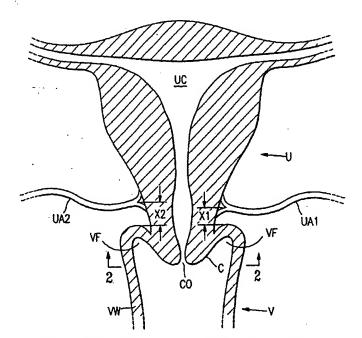
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INTERNATIONAL SEARCH REPORT

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US CL : 600/461; 606/205									
According to International Patent Classification (IPC) or to both national classification and IPC									
B. FIELDS	SEARCHED								
Minimum documentation searched (classification system followed by classification symbols)									
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Images Description and Claims (92 Kb)

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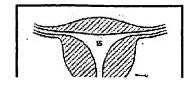
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- (54) MULTI-AXIAL UTERINE ARTERY IDENTIFICATION, CHARACTERIZATION, AND OCCLUSION PIVOTING DEVICES AND METHODS
- (71) VASCULAR CONTROL SYSTEMS, INC. [US/US]; Suite E, 32236 Paseo Adelanto, San Juan Capistrano, CA 92675 (US).
- (72) BURBANK, Fred [US/US]; 12 Old Ranch Road, Laguna Niguel, CA 92677
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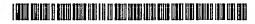




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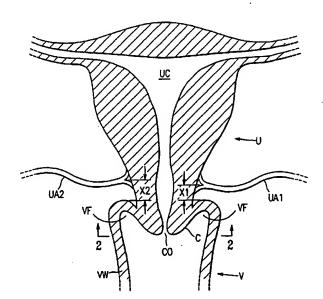
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[Continued on next page]

(54) Title: MULTI-AXIAL UTERINE ARTERY IDENTIFICATION, CHARACTERIZATION, AND OCCLUSION PIVOTING DEVICES AND METHODS



(57) Abstract: A system is provided for compressing one or both of the uterine arteries of a patient which is at least n part shaped to complement the shape of the exterior of the cervix, which allows the system to be self-positioning. One or more Doppler chips can be mounted or incorporated into the system which permit the practitioner to better identify the uterine artery and monitor blood flow therein. The system includes a pair of pivotally joined elements which can be moved toward and away from the cervix to compress a uterine artery.

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WO 02/078521 PCT/US02/09548

MULTI-AXIAL UTERINE ARTERY IDENTIFICATION, CHARACTERIZATION, AND OCCLUSION PIVOTING DEVICES AND METHODS

[0001] This application is related and claims priority under 35 U.S.C. § 119 to U.S. provisional patent application serial number 60/279,477, filed March 28, 2001, the entire contents of which are incorporated by reference herein. This application is also related to an application filed on even date herewith entitled "Multi-axial uterine artery identification, characterization, and occlusion devices and methods", by Fred Burbank, Grieg E. Altieri, and Michael L. Jones, attorney docket number 0281-0001, the entire contents of which are incorporated by reference herein.

BACKGROUND OF THE INVENTION

Field of the Invention

[0002] The present invention relates to devices, systems, and processes useful for compressing a uterine artery, and more particularly to devices and systems capable of easily locating, compressing, and/or monitoring or characterizing the blood flow through a uterine artery.

Brief Description of the Related Art

[0003] It has been proposed that occlusion of the uterine arteries of a human female patient can kill myomata, i.e., fibroids, because of the relative frailty of the fibroids to anoxia or hypoxia, and the relatively high resistance of uterine tissues to anoxia or hypoxia. See Burbank, Fred, M.D., et al, Uterine Artery Occlusion by Embolization or Surgery for the Treatment of Fibroids: A Unifying Hypothesis-Transient Uterine Ischemia, The Journal of the American Association of Gynecologic Laparoscopists, November 2000, Vol. 7, No. 4 Supplement, pp. S3-S49. U.S. Patent No. 6,254,601, to Fred Burbank et al, entitled "Methods for Occlusion of the Uterine Arteries", describes numerous devices and methods useful for occluding a uterine

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WHAT IS CLAIMED IS:

1. A device useful for compressing a uterine artery of a patient comprising:

a handle having a proximal end and a distal end; and

a compressing portion mounted to the handle distal end, the compressing portion having a distal end face and a side surface.

2. A device in accordance with Claim 1, wherein the compressing portion is a first compressing portion, and further comprising a second compressing portion spaced apart from the first compressing portion; and

wherein the handle is connected to at least one of the two compressing portions.

- 3. A device in accordance with Claim 2, further comprising: at least one Doppler crystal mounted in the compressing portion, the at least one Doppler crystal having a direction of view away from the compressing portion distal end face.
- 4. A device in accordance with Claim 2, wherein the at least one Doppler crystal is releasably mounted in the distal compressing portion.
- 5. A device in accordance with Claim 2, wherein the at least one Doppler crystal is integrally formed in the distal compressing portion.
- 6. A device in accordance with Claim 2, wherein the at least one Doppler crystal comprises a plurality of Doppler crystals mounted in the compressing portion.

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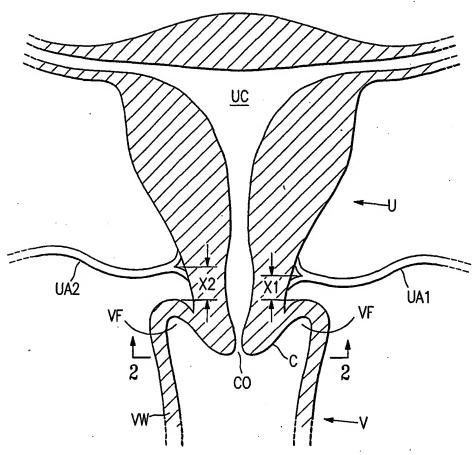


FIG. 1

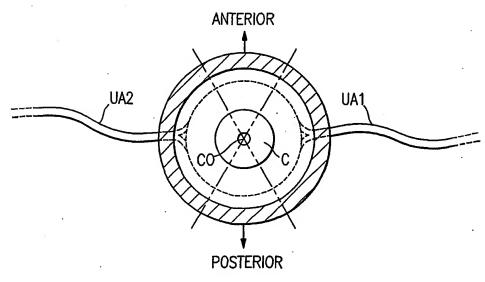


FIG. 2

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